

FIG. 2A

INPUT TEXT EXAMPLE

TEXT 2	TEXT 1
A20 wa kawa no tezawari ga odoroku hodo nameraka da. iroai mo shittori to yasashii. touch of leather ultra smooth coloring moist soft (A20 is made in ultra smooth leather. The leather is dyed in moist and soft color.)	A sha no kogata bag A2O ha kaikou bu ga 30cm to kanari ookii. fasuna-no kaihei mo pen top open top 30cm rather wide zipping and unzipping mameraka da. kawa no kanshoku wa shittori to yasashii.

FIG. 2B VIEWPOINT AND DESCRIPTION IDENTIFICATION EXAMPLE

TEXT 2 A20 W	TEXT 1 A sha
TEXT 2 A20 wa <view1>kawa no tezawari</view1> ga <desc1>odoroku hodo nameraka da</desc1> . <view2>iroai</view2> mo <desc2>shittori to yasashii</desc2> .	A sha no kogata bag A2O wa <view1>kaikou bu</view1> ga <desc1a> 30cm</desc1a> to kanari ookii . <view2>fasuna-no kaihei</view2> mo <desc2>nameraka da</desc2> . <view3>kawa no kanshoku</view3> wa <desc3>shittori to yasashii</desc3> .

FIG. 2C ELEMENT METADATA EXTRACTION RESULT

iroai(coloring)	kawa no tezawari (touch of leather)	kawa no kanshoku (feel of leather)	fasuna-no kaihei (zipping and unzipping)	Kalikuubu (opell Lop)	ka:ka:ka:(apan +an)	VIEWPOINT	
shittori to yasasii (moist and soft)	odoroku hodo mameraka da (ultora smooth)	shittori to yasasii (moist and soft)	nameraka da (smooth)	kanari ookii (rather wide)	30cm	DESCRIPTION	
2-2	2-1	1-3	1-2	1-1b	1-1a	ELEMENT METADATA ID	-

VIEWPOINT/DESCRIPTION EXTRACTION RULE EXAMPLE

FIG. 3A

RULE PATTERN		VIEWPOINT	DESCRIPTION
ha'({KANJI/HIRAGANA STRING 1})[`ga'`mo'] ({KANJI/HIRAGANA STRING 1})[`ga'`mo']	ga´`mo´] VE_END NG_1})	\$1	\$2 \$3
ha ~ ({KANJI/HIRAGANA STRING 1} {ADJECTIVAL NOUN ENDING 1}) ({KANJI/HIRAGANA STRING 1} {ADJECTIVAL NOUN ENDING 1})	ga´`mo´] VAL NOUN ENDING 1})	\$1	\$2
ha ({KANJI/HIRAGANA STRING 1})[`ga `mo] ({KANJI/HIRAGANA STRING 1} {ADJECTIVE ENDING 1})	ga´`mo´] VE ENDING 1})	\$1	\$2

EXPLANATION OF NOTATION OF RULE

[]:ANY IN TABLE +:REPETITION OF PATTERN ELEMENT IMMEDIATELY BEFORE ONCE OR MORE TIMES ():BACKWARD REFERENCE(SEQUENTIALLY REFERRED BY \$(INTEGER)) \$(INTEGER):VARIABLE (CHARACTER STRING MATCHED WITH{INTEGER}TH PART PARANTHISED BY "()"IN PATTERN

VIEWPOINT/DESCRIPTION EXTRACTION RULE COMPONENT DEFINITION EXAMPLE FIG. 3B

`ku´`ka´`u´`yuu´`i´	ADJECTIVE ENDING 1
`daro´,`da´,`de´,`dat´,`ni´,`na´	ADJECTIVAL NOUN ENDING 1
[0-9A-z]+	ALPHANUMERIC STRING 1
string composed by any kanji/hiragana	KANJI/HIRAGANA STRING 1
DEFINITION	COMPONENT NAME

FIG. 4

METADATA INTEGRATION RESULT

iroai (coloring)	(feel ofleather)	kawa no kanshoku	fasuna-no kaihei (zipping and unzipping)	Kalkoubu (open Lop)	l. :	VIEWPOINT	
shittori to yasasii (moist and soft)	odoroku hodo mameraka da (ultora smooth)	shittori to yasasii (moist and soft)	nameraka da (smooth)	kanari ookii (rather wide)	30cm	DESCRIPTION	
2-2	2-1	1-3	1-2	1–1b	1-1a	VIEWPOINT/DESCRIPTION PAIR ID	

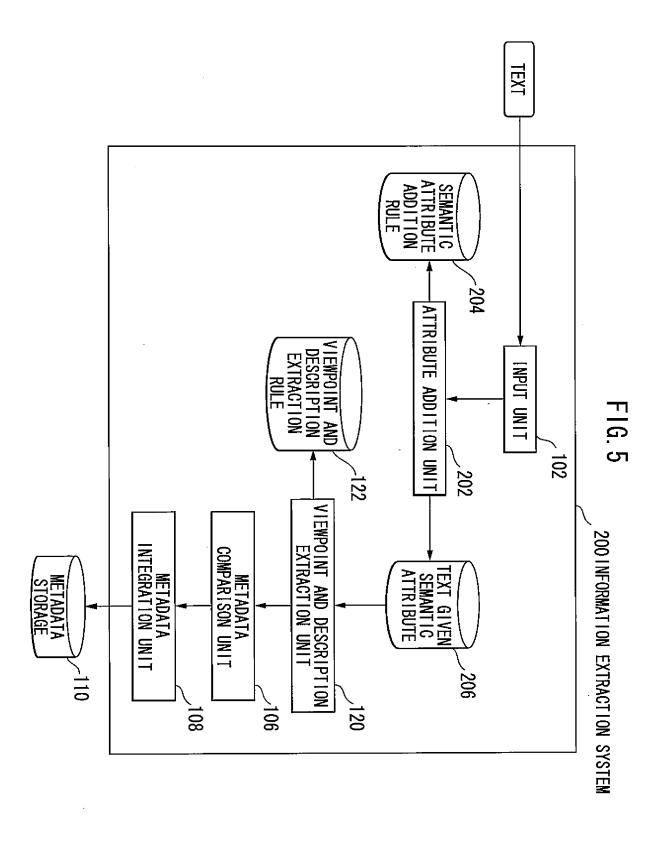


FIG. 6A

TEXT EXAMPLE

TEXT 2 bag A20 bag A20 c thii	A sha no bag TEXT 1 A company bag (The capacity of
bag A200 ha youryou ga hujuubunda to omou. bag A200 capacity (I think the capacity of the bag A200 is insufficient.)	A sha no bag A200 ha youryou ga 20 rittoru to ookii. company bag A200 capacity 20liters (The capacity of the bag A200 made by A company is as large as 20 liters.)

FIG. 6B

SEMANTIC ATTRIBUTE ADDITION EXAMPLE

TEXT 2	TEXT 1
<prod_type>bag</prod_type> <prod_name>A-200</prod_name> ha <quant_type>youryou</quant_type> ga hujuubunda to omou.	<pre><organization type="company">A sha</organization> no <prod_type>bag<prod_name>A200 <prod_name>ha<quant_type>youryou</quant_type>ga<quant unit="1," val="20"> 20rittoru</quant> to ookii.</prod_name></prod_name></prod_type></pre>

FIG. 7A

SEMANTIC ATTRIBUTE ADDITION RULE EXAMPLE

		; ;	SE	SEMANTIC ATTRIBUTE
RULE	PATTERN	PART	SEMANTIC CLASSIFICATION	DETAILED INFORMATION
1	({NUMERIC STRING} {QUANTITY UNIT})	\$1 \$2	QUANT	<pre>•unit:EXPRESSION IN UNITS OF QUANTITY •val:VALUE ACQUIRED BY NORMALIZING NUMERIC EXPRESSION</pre>
2	({QUANTITY CLASSIFICATION})	\$1	QUANT_TYPE	
ယ	({ALPHABETIC STRING} (EXPRESSION MMEDIATELY FOLLOWING COMPANY NAME))	\$1	ORGANIZATION	• type:company
4	(PRODUCT CLASSIFICATION NAME)}	\$1	PROD_TYPE	
ហ	({PRODUCT CLASSIFICATION NAME} {ALPHANUMERIC SYMBOL STRING 1})	∽	PROD_NAME	

FIG. 7B SEMANTIC ATTRIBUTE ADDITION RULE COMPONENT DEFINITION EXAMPLE

COMPONENT NAME EXPRESSION IMMEDIATERY FOLLOWING COMPANY NAME QUANTITY CLASSIFICATION QUANTITY UNIT PRODUCT CLASSIFICATION NAME	DEFINITION sha(company) youryou(capacity) `liter',`meter',`gram' bag',`shoes',`bousi(hat)'
QUANTITY UNIT	`liter´,`meter´,`gram´
PRODUCT CLASSIFICATION NAME	`bag´, `shoes´, `bousi(hat)
NUMERIC STRING	[0-9] +
ALPHABETIC STRING	[A-Z] +
ALPHANUMERIC SYMBOL STRING 1	[-0-9A-z] +

FIG. 8A

EXAMPLE OF TEXT GIVEN SEMANTIC ATTRIBUTE

<prod_type>bag</prod_type> <prod_name>A-200<prod_name> ha<quant_type>youryou</quant_type> ga hujuubunda to omou.</prod_name></prod_name>	TEXT 2 <pi< th=""></pi<>
<pre><organization type="company">A sha</organization> no <prod_type>bag</prod_type><prod_name>ha</prod_name>hayouryouga<quant unit="1,val=20"></quant></pre>	TEXT 1 1 20

FIG. 8B

VIEWPOINT AND DESCRIPTION IDENTIFICATION EXAMPLE

TEXT 2	TEXT 1
<pre><desc1><prod_type>bag</prod_type></desc1><desc2><prod_name>A-200</prod_name> ha<quant_type>youryou</quant_type> ga <desc3> hujuubunda to omou.</desc3></desc2></pre>	<pre><desc1><organization type="company">A sha</organization></desc1> no <desc2><prod_type>bag </prod_type></desc2><desc3><prod_name>A200</prod_name></desc3>ha<view4><quant_type>youryou </quant_type></view4>ga<desc4a><quant_unit=1, val="20">20 rittoru</quant_unit=1,></desc4a> to ookii.</pre>

VIEWPOINT/DESCRIPTION EXTRACTION RULE EXAMPLE

		1
_		_
C	7)
•		
C	C	>
-	Ē	

END TAG	ARBITRARY CHARACTER STRING EXCEPT TAG END SYMBOL 1	ARBITRARY CHARACTER STRING EXCEPT TAG START SYMBOL 1	SEMANTIC ATTRIBUTE 1	ADJECTIVE ENDING 1	ADJECTIVE VERB ENDING 1	COMPONENT NAME
(+[<]/		+[^]+	'ORGANIZATION', 'ORGANIZATION type company' 'PROD_TYPE', 'PROD_NAME', 'PERSON', 'DATE', 'TIME', PERIOD',	`ku´,`ka´,`ù´,`yuu´,`i´	`daro´,`da´,`de´,`da´,`ni´,`na´	DEFINITION

FIG. 10

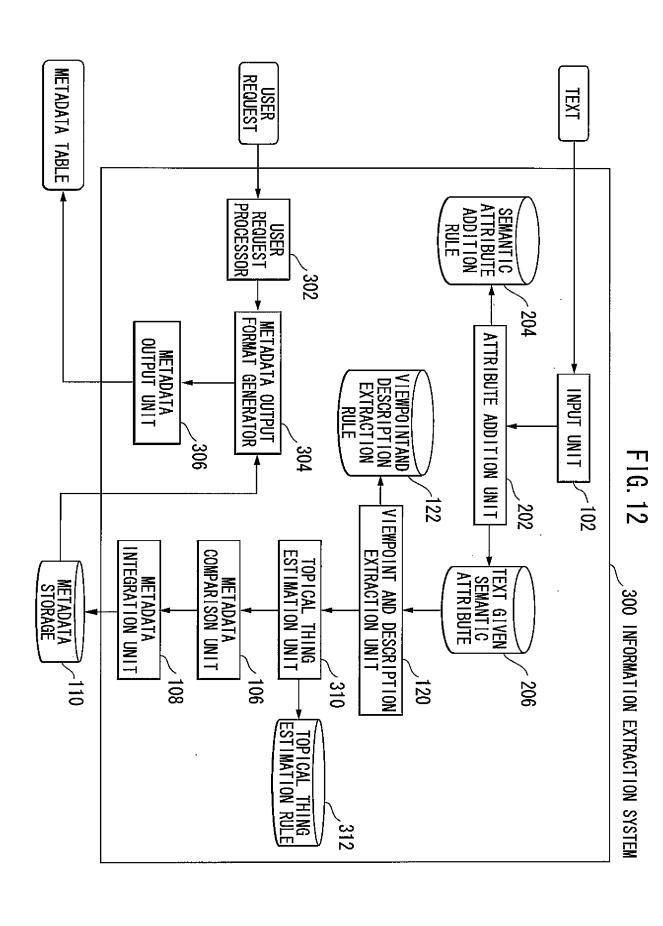
ELEMENT METADATA EXTRACTION RESULT

1			hujuubun dα	UAFAUIII
9 -3		QUANT_TYPE		OADAO TV
2-2		PROD_NAME	A-200	PRODUCT NAME
2–1		PROD_TYPE	bag	PRODUCT CLASSIFICATION
1-4b			ookii	
1-4a	unit=1, val=20	QUANT	20 rittoru	CAPACITY
-		QUANT_TYPE		
1-3		PROD_NAME	A-200	PRODUCT NAME
1-2		PROD_TYPE	bag	PRODUCT CLASSIFICATION
1-1	type=company	ORGANIZATION type=company	A sha	COMPANY NAME
METADATA Id	DETAILED INFORMATION	SEMANTIC DETAILED CLASSIFICATION INFORMATION	DESCRIPTION	VIEWPOINI
ELEMENT	SEMANTIC ATTRIBUTE	SEMANTIC		

+ IG. 11

METADATA INTEGRATION RESULT

		CAPACITY 20 rittoru		PRODUCT NAME A-200	PRODUCT CLASSIFICATION bag	COMPANY NAME A sha	VIEWPOINT DESCRIPTION	
hujuubun:da	ookii	toru QUANT	QUANT_TYPE	00 PROD_NAME	g PROD_TYPE	ha ORGANIZATION	PTION SEMANTIC CLASSIFICATION	
	-	unit=1, val=20 1-4a				N type=company	DETAILED ON INFORMATION	SEMANTIC ATTRIBUTE
2-3	1-4b	1-4a	1	1-3 2-2	1-2 2-1	1-1	METADATA ID	ELEMENT



HE1. PIT

C/VIEW 3> ga CDESC 3> COUANT UNITE! VAI=20> 20 MITEM 400 C/PROD - TYPE > C/PROD - TYPE > COUANT - TYPE > COUAN	
CDESCI>CPROD-TYPE>A200C/PROD-NAME>C/DESCI>CP	TEXT2
CLOUANT_TYPE>CIVIEW 6> ga CVIEW ?> amariniookii	
TYPE> <descb>COUANT_TYPE>YOURYOU</descb>	
bundashi, <desc4><prod_type> bag </prod_type></desc4>	
TYPE>YOU'YOU'S OUNTITY BESCISS OR COESC 3> hu) uu TYPE>YOU'YOU'S ON SOO SOON ON THE SOON OF SCISSON SOON OF SCISSON SOON ON TYPE SOON ON THE SOON ON TYPE SOON ON THE	
DINT AND DESCRIPTION IDENTIFICATION EXAMPLE	

FIG. 13B
ELEMENT METADATA EXTRACTION RESULT EXAMPLE

	Val=30	118100	30 1/1/201	
9-7	, l=jinu	TNAUQ	114044/4 08	YTIOA9AO
		ANT_TNAUD		
5–5		PROD_NAME	00£A	PRODUCT NAME
7-7		PROD_TYPE	Pag	PRODUCT CLASSIFICATION
2–3	nnit=1, val=20	TNAUQ	20 rittonu	YTIOA9A
		QUANT_TYPE		
2-2		PROD_NAME	A200	PRODUCT NAME
7-2	_	PROD_TYPE	Bug	PRODUCT CLASSIFICATION
			nárini ookit	CAPACITY QI
9-1		ATT TNAUD		
9-1		PROD_NAME	00£A	PRODUCT NAME
7-1		PROD_TYPE		PRODUCT CLASSIFICATION
			p brud uviud	CAPACITY
1-3		ANT_TNAUD		7,2101010
1-2		PROD_NAME	A200	PRODUCT NAME
1-1		PROD_TYPE	७७५	PRODUCT CLASSIFICATION
ATADATAM ID	INFORMATION	CLASSIFICATION	DESCRIPTION	VIEWPOINT
ELEMENT	TUBIATTA	SEMANTIC		

FIG. 14A

TOPICAL THING ESTIMATION RULE EXAMPLE

RULE	CONDITION	ESTIMATED TOPICAL THING
	<pre><desc[0-9]+><{PROD_TYPE PERSON}>({ARBITRARY CHARACTER STRING EXCEPT TAG START SYMBOL} <{PROD_TYPE PERSON}></desc[0-9]+></pre>	TOPICAL THING OF ELEMENT METADATA OF DESCRIPTION \$1:\$1
2	({ARBITRARY CHARACTER STRING EXCEPT TAG START SYMBOL}) {PROD TYPE PERSON} "HA" (<view[0-9]+><{ARBITRARY CHARACTER STRING EXCEPT TAG START SYMBOL}><view[0-9]+> "GA"<{ARBITRARY CHARACTER STRING EXCEPT TAG START SYMBOL}) HOWEVER, CHARACTER STRING IN \$2 AND \$4, IN \$5 AND \$7 SHALL BE IDENTICAL</view[0-9]+></view[0-9]+>	LObical thind ob Element Weiadaly ob
ယ	({ARBITRARY CHARACTER STRING EXCEPT TAG START SYMBOL}) {PROD_TYPE PERSON} <desc[0-9]±><{PROD TYPE PERSON}> <{ARBITRARY CHARACTER STRING EXCEPT TAG START SYMBOL}><!--{PROD_TYPE PERSON}--></desc[0-9]±>	TOPICAL THING OF ELEMENT METADATA OF DESCRIPTION \$2:\$4

EXPLANATION OF NOTATION OF RULE (A|B): ONE OF A AND B

FIG. 14B

TOPICAL THING ESTIMATION RULE COMPONENT DEFINITION EXAMPLE

+	ARBITRARY CHARACTER STRING
[0-9A-Za-z_]+	TAG CONFIGURATION CHARACTER STRING
DEFINITION	COMPONENT NAME

TOPICAL THING ESTIMATION EXAMPLE

FIG. 15

	7	val=30	QUANT	30 rittoru	071 7011
	သ 	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	WUANI_ITE		CADACITY
4			OHANT TYPE		
	2-5		PROD_NAME	A300	PRODUCT NAME
	2–4		PROD_TYPE	bag	PRODUCT CLASSIFICATION
	2-3	unit=1, val=20	QUANT	20 rittoru	CAPACITY
	,		QUANT_TYPE		
-	2-2		PROD_NAME	A200	PRODUCT NAME
	2-1		PROD_TYPE	bag	PRODUCT CLASSIFICATION
	-10			amarini ookii	
	1		QUANT_TYPE		CADACITY
	1-5		PROD_NAME	A300	PRODUCT NAME
	1-4		PROD_TYPE	bag	PRODUCT CLASSIFICATION
				hujuubunda	021 2011
	1-3		QUANT_TYPE		CADACITY
	1-2		PROD_NAME	A200	PRODUCT NAME
	1-1		PROD_TYPE	bag	PRODUCT CLASSIFICATION
THING	METADATA ID	DETAILED INFORMATION	SEMANTIC CLASSIFICATION	DESCRIPTION	VIEWPOINT
	FI FMFNT	TTRIBUTE	SEMANTIC ATTRIBUTE		

F1G. 16

, <u> </u>	INTEGRATION RESULT EXAMPLE	EXAMPLE				
	TOPICAL THING		7	SEMANTIC ATTRIBUTE	·	ELEMENT
	ESTIMATION EXAMPLE	VIEWPOINI	DESCRIPTION	SEMANTIC CLASSIFICATION	DETAILED INFORMATION	METADATA ID
		PRODUCT CLASSIFICATION	bag	PROD_TYPE		1-1 2-1
	A200	PRODUCT NAME	A200	PROD_NAME		1-2 2-2
	Î			QUANT_TYPE		ı
		CAPACITY	hujuubunda			1-3
			20 rittoru	QUANT	unit=1, val=20	2–3
		PRODUCT CLASSIFICATION	bag	PROD_TYPE		1-4 2-4
	^	PRODUCT NAME	A300	PROD_NAME		1-5 2-5
	AJOO	1		QUANT_TYPE		1
		CAPACITY	amarini ookii			1-6
r		יייי עטוועט	30 rittoru	QUANT	unit=1, val=30	2-6

FIG. 17

INTEGRATION RESULT EXAMPLE

	A200		ESTIMATION EXAMPLE	TODICAL THING	
	CAPACITY		VIEWPOINT		
20 rittoru	hujuubunda		DESCRIPTION		
QUANT		QUANT_TYPE	SEMANTIC DETA	SEMANTIC ATTRIBU	
unit=I, val=20			DETAILED INFORMATION	TTRIBUTE	
2-3	1-3	_	METADATA ID	ELEMENT	

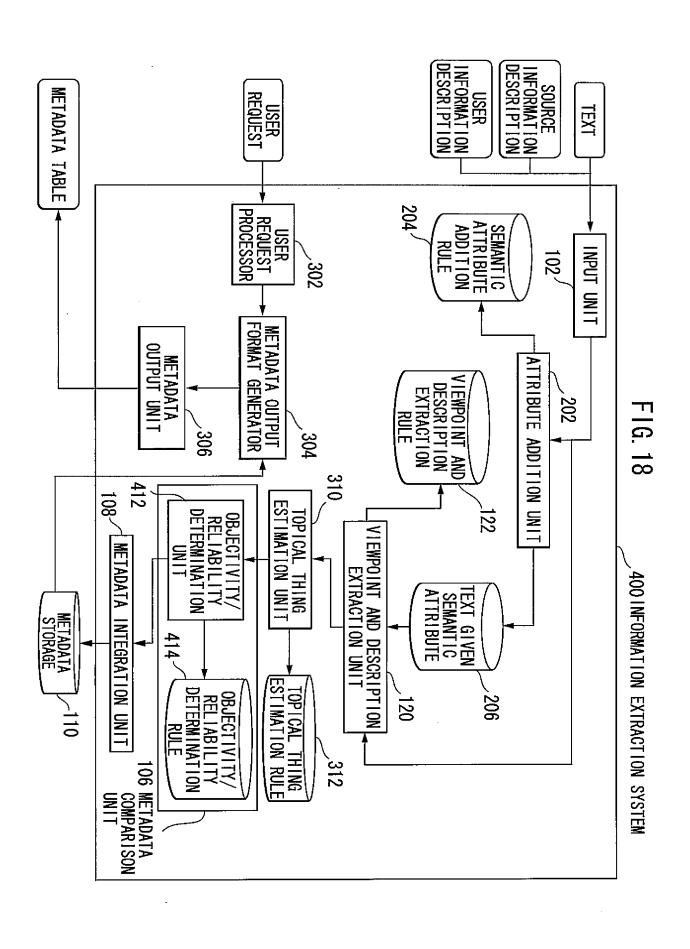


FIG. 19A

SOURCE INFORMATION DESCRIPTION EXAMPLE

SOURCE INFORMATION DESCRIPTION 1	http://www.aaa.co.jp/articlel CREATION DATE:OCT.1,2003
SOURCE INFORMATION DESCRIPTION 2	http://www.xxx.yyy.jp/~zzz CREATION DATE:MAY.1,2003

FIG. 19B USER INFORMATION DESCRIPTION EXAMPLE

AUTHOR ZZZ MALE IN TWENTIES	USER INFORMATION DESCRIPTION 2
COMPANY NAME:aaa	USER INFORMATION DESCRIPTION 1

FIG. 190

EXAMPLE OF SOURCE INFORMATION DESCRIPTION WITH SEMANTIC ATTRIBUTE

DESCRIPTION I	SOURCE INFORMATION
<pre><daie value="2003:10:01">001.1, 2003</daie></pre>	SOURCE INFORMATION <urltype=corporate page="" web="">http://www.aaa.co.jp/article!</urltype=corporate>

FIG. 19D

EXAMPLE OF USER INFORMATION DESCRIPTION WITH SEMANTIC ATTRIBUTE

USER INFORMATION AUTHOR <author>zzz</author> 。 <agevalue=20:29>TWENTIES DESCRIPTION 1 <gender type="M">MALE</gender>。</agevalue=20:29>		
	SCRIPTION	ER INFORM
AUTHOR <author>zzz</author> 。 <agevalue=20:29>TWENTIES <gender type="M">MALE</gender>。</agevalue=20:29>		MATION
	<pre><gender type="M">MALE</gender>。</pre>	AUTHOR <author>zzz</author> 。 <agevalue=20:29>TWENTIES</agevalue=20:29>

SOURCE SEMANTIC ATTRIBUTE ADDITION RULE EXAMPLE

FIG. 20A

		SEM	SEMANTIC ATTRIBUTE
RULE	PATTERN	SEMANTIC CLASSIFICATION	DETAILED INFORMATION
	(http://. *¥. cc¥jp. *)	URL (WEB PAGE)	type=company
2	({4-DIGIT NUMERIC GHARACTER})YEAR ({1 TO 2-DIGIT NUMERIC GHARACTER})MONTH ({1 TO 2-DIGIT NUMERIC GHARACTER})	DATE	value=\$1:\$2:\$3 HOWEVER, PUT O BEFORE WHEN \$2 AND \$3 ARE ONE DIGIT

FIG. 20B USER SEMANTIC ATTRIBUTE ADDITION RULE EXAMPLE

ı	-		
	GENDER	MALE	ယ
	AGE	({1-DIGIT NUMERIC CHARACTER})AGE OF 0	2
	AUTHOR	AUTHOR[:]*([^.]+)	
CTION	SEMANTIC CLASSIFICATION	PATTERN	RULE
SEMANTIC			

[^.]: CHARACTER UNMATCHED WITH CHARACTER IN TABLE

SOURCE VIEWPOINT/DESCRIPTION EXTRACTION RULE EXAMPLE

FIG. 21A

2 (CR EXC	1 ÇUR	RULE
(CREATION DATE): <date>({ARBITRARY CHARACTER STRING EXCEPT TAG START SYMBOL})</date>	<pre><url page="" type="CORPORATE" web="">({ARBITRARY CHARACTER SOURCE OF TEXT STRING EXCEPT TAG START SYMBOL})</url></pre>	PATTERN
\$1	SOURCE OF TEXT	VIEWPOINT
\$2	\$1	DESCRIPTION

FIG. 21B

USER VIEWPOINT/DESCRIPTION EXTRACTION RULE EXAMPLE

3	2	_	RULE
<pre><gender type="M">({ARBITRARY CHARACTER STRING EXCEPT TAG START SYMBOL})</gender></pre> /GENDER>	<agevalue=(20:29)>([ARBITRARY CHARACTER STRING EXCEPT TAG START SYMBOL])</agevalue=(20:29)>	<pre><author>({ARBITRARY CHARACTER STRING EXCEPT TAG START SYMBOL})</author></pre>	PATTERN
GENDER	AGE	AUTHOR	VIEWPOINT
MALE	<u>\$</u>	\$3	DESCRIPTION

FIG. 22A SOURCE METADATA EXTRACTION RESULT EXAMPLE

1-\$3	value=2003:10:01	DATE	0CT. 1, 2003	CREATION DATE
1-\$2	type=company	URL (WEB PAGE)	CORPORATE WEB PAGE (http://www.aaa.co.jp/articlel)	CLASSIFICATION OF TEXT
1-\$1	type=company	URL (WEB PAGE)	http://www.aaa.co.jp/articlel	SOURCE OF TEXT
METADATA ID	DETAILED INFORMATION	SEMANTIC CLASSIFICATION	DESCRIPTION	VIEWPOINT
00100		SEMANTIC ATTRIBUTE		

FIG. 22B USER METADATA EXTRACTION RESULT EXAMPLE

AGE 20-29 AGE value=20:2		AUTHOR ZZZ AUTHOR	VIEWPOINT DESCRIPTION SEMANTIC DETAILED CLASSIFICATION INFORMATION	
		THOR	DETAILED INFORMATION	
9~ 3	2-U2	2-U1	METADATA ID	

OBJECTIVITY/RELIABILITY DETERMINATION RULE EXAMPLE FIG. 23

10	9	8	7	6	σı	4	ယ	2			RD T	-
10 CAPACITY	CAPACITY	CAPACITY	CAPACITY	CAPACITY	USAGE	USAGE	PRODUCT NAME	PRODUCT CLASSIFICATION	ORGANIZATION NAME	VIEWPOINT	ELEMENT META	
NONE OR EXCEPT QUANT		NONE OR EXCEPT QUANT	QUANT	QUANT	USAGE	USAGE				SEMANTIC CLASSIFICATION OF DESCRIPTION	ELEMENT METADATA OF TEXT	
CLASSIFICATION OF TEXT			CLASSIFICATION OF TEXT	CLASSIFICATION OF TEXT	CLASSIFICATION OF TEXT	CLASSIFICATION OF TEXT				VIEWPOINT	SOURCE	CONDITION
PERSONAL WEB PAGE	CORPORATE WEB PAGE/ NEWSPAPER		PERSONAL WEB PAGE	CORPORATE WEB PAGE/ NEWSPAPER	PERSONAL WEB PAGE	CORPORATE WEB PAGE/				DESCRIPTION	SOURCE METADATA	
EXCEPT (INDEFINITE EXPRESSION	EXCEPT (INDEFINITE EXPRESSION	ENDING OF SENTENCE IS [INDEFINITE EXPRESSION]								OTHERS		
0	0	0		_	0		_	_	_	YTIVIT	1EC	OB
0.5	0.5	0.2	0.9		0.5	_	-		_	YTIJI8	۲۱∀	∃Y

OBJECTIVITY/RELIABILITY DETERMINATION RULE COMPONENT DEFINITION EXAMPLE INDEFINITE EXPRESSION 1:THINK, SEEM, COBSIDERED, MAY, LIKLY

Aps. DIT

TEXT EXAMPLS

capacity bag A200 20 liters Bag A200 ha youyruou ga 20 rittoru to ookii.

TEXT

(The capacity of the bag A200 is as large as 20 liters.)

think to omou. bag A200 for overseas business trip insufficient capacity Bag A200 no youryou ha kaigai syuttyouyou ni ha hujuubunnda

LTXAT

business trip.) (I think the capacity of bag A200 is insufficient for overseas

bag A200 capacity for domestic business trip 001 Bag A200 no youryou ha kokunal syuttyouyou ni ha amarini

JEXT3 ookii.

|St.ge

(The capacity of bag A200 is too large for domestic business

trip.)

!nnpnuuqa bag A200 capacity for domestic business trip Bag A200 no youryou ha kokunai syuttyouyou ni ha TEXTA

(The capacity of bag A200 is sufficient for domestic business

(rip.)

sufficient

FIG. 24B

EXAMPLES OF TEXT GIVEN SEMANTIC ATTRIBUTE

TEXT 1 | bag</PROD_TYPE><PROD_NAME>Azoo</PROD_NAME>ha<QUANT_TYPE> <CRGANIZATION type=company> A sha/ORGANIZATION> no <PRODITINES</pre> ga<QUANT unit=1, va =20>20 rittoru</QUANT> to ookii.

TEXT 2 |NT_TYPE>Xouryou</QUANT_TYPE>ha<USAGE>kaigaisyuttyouyou</usa GE>ni ha hujuubunda to omou. <PROD_TYPE>bag</prod_TYPE><PROD_NAME>A200/PROD_NAME>no<QUA</pre>

TEXT 3 |T_TYPE>Youryou</QUANT_TYPE>ha<USAGE>kokunaisyuttyouyou</USAGE> ni ha amarini ookii. <PROD_TYPE>bag</PROD_TYPE><PROD_NAME>AZOO</PROD_NAME>no<QUAN

TEXT4 |TYPE> Youryou</QUANT_TYPE> ha< USA GE>kokunaisyuttyouyou</usage> <PROD_TYPE>bag_TYPE>CPROD_NAME>A200_NAME>no<QUANT_</pre> ni ha juubunda.

FIG. 25A VIEWPOINT/DESCRIPTION EXTRACTION RULE EXAMPLE

5	4	ω	2		RULE
<pre>{TRAILING TAG}<({SEMANTIC ATTRIBUTE 1})><({ARBITRARY CHARACTER STRING EXCEPT TAG START SYMBOL})><!--{SEMANTIC ATTRIBUTE 1}--></pre>	<pre>{ARBITRARY CHARACTER STRING EXCEPT TAG TRAILING SYMBOL]* <(({SEMANTIC ATTRIBUTE})> ({ARBITRARY CHARACTER STRING EXCEPT TAG START SYMBOL}) <!--({SEMANTIC ATTRIBUTE 1}--></pre>	<pre><quant_type>(<arbitrary character="" except="" start="" string="" symbol="" tag="">) (</arbitrary></quant_type>)[ga OR ha]({KANJI/HIRAGANA STRING</pre>	<pre><quant_type>(<arbitrary character="" except="" start="" string="" symbol="" tag="">) (</arbitrary></quant_type>)[ga OR ha]<usage>(FOR <arbitrary character="" except="" start="" string="" symbol="" tag="">) (niltosite)[haOR mo]({KANJI/HIRAGANA STRING 1} {ADJECTIVE ENDING 1})</arbitrary></usage></pre>	<pre><quant_type>(<arbitrary character="" except="" start="" string="" symbol="" tag="">) (</arbitrary></quant_type>)[ga OR ha]<quant>(<arbitrary character="" except="" start="" string="" symbol="" tag="">) </arbitrary></quant>to({KANJI/HIRAGANA STRING 1} {ADJECTIVE ENDING 1})</pre>	PATTERNVIE
ARIAS OF SEMANTIC ATTRIBUTE OF \$1	ARIAS OF SEMANTIC ATTRIBUTE OF \$1	\$ 1	₩.	\$1	VIEWPOINT
\$2	\$2	\$2	\$2&&\$3	\$2 \$3	DESCRIPTION

FIG. 25B VIEWPOINT/DESCRIPTION EXTRACTION RULE COMPONENT DEFINITION EXAMPLE

END TAG	ATTRIBUTE CHARACTER EXCEPT TAG END SYMBOL	COMPONENT NAME
<+[<^]\>	[<,]	DEFINITION

F1G. 26

ELEMENT METADATA EXTRACTION RESULT EXAMPLE

A-200	4-4		USAGE	kokunaisyuttyouyou	USAGE
; ;	-		1	JUUBUN da	
A-200	4-3		BASU	kokunaisyutt <i>youyou</i>	CAPACITY
			QUANT_TYPE		
A-200	4-2		PROD_NAME	A200	PRODUCT NAME
A-200	4-1		PROD_TYPE	bag	PRODUCT CLASSIFICATION
A-200	3-4		USAGE	Kokunaisyuttyouyou	USAGE
			ı	amariniookii	
A-200	ω ω		USAGE	kokunai syuttyou you	CAPACITY
			QUANT_TYPE		
A-200	3-2		PROD_NAME	A200	PRODUCT NAME
A-200	3-1		PROD_TYPE	603	PRODUCT CLASSIFICATION
A-200	2-4		USAGE	kaigaisyuttyouyou	
			-	hujuu bu n. da	
A-200	2-3		USAGE	kaigaisyuttyou you	GAPACTIY
			QUANT_TYPE		
A-200	2-2		PROD_NAME	A200	PRODUCT NAME
A-200	2-1		PROD_TYPE	bag	PRODUCT CLASSIFICATION
	1-3b		ı	00 Kîî	
A-200	1-3a	unit=1, val=20	QUANT	20 rittoru	CAPACITY
	1		QUANT_TYPE		
A-200	1-2		PROD_NAME	A200	PRODUCT NAME
A-200	<u>-</u>		PROD_TYPE	bag	PRODUCT CLASSIFICATION
THING	METADATA ID	DETAILED INFORMATION	SEMANTIC CLASSIFICATION	DESCRIPTION	VIEWPOINI
TODION		ATTRIBUTE	SEMANTIC AT		
				טוייסא וירססרו ר/אוווו רר	רבריייבוזי יייב יייפייניי בייווייסי דסוו

FIG. 27
OBJECTIVITY/RELIABILITY DETERMINATION RESULT EXAMPLE ELEMENT METADATA

						0, 5	0	4-4	USAGE	Kokunaisyuttyouyou	Kokunai	USAGE
						ر. ن	·	ر 1	1 1	da	JUUbUn	
4-U3	MALC		4-02	AN 0 ₽AG	_	o သ	0	4-3	USAGE	kokuna isyuttyouyou	Kokunais	CAPACITY
<u>-</u> 	= = = = = = = = = = = = = = = = = = =		3					ı	QUANT_TYPE			
						1.0	1.0	4-2	PROD_NAME	A200	NAME	PRODUCT N
		-				1.0	1.0	4-1	PROD_TYPE	bag	CLASSIFICATION	PRODUCT (
						0. 5	0	3-4	USAGE	kokunaisyuttyouyou	kokunais	USAGE
				יך יך		ს. ა	C	0	ı	ok:	amarini ookii	
3- [3	FEMALE		3-52	A N O BA9		ე ა	>	ນ ນ	USAGE	<u>kokunaisyuttyouyou</u>	kokunais	CAPACITY
			8	B I				1	QUANT_TYPE			
				BE BM		1.0	1.0	3-2	PROD_NAME	A200	NAME	PRODUCT I
						1.0	1.0	3-1	PROD_TYPE	bag	CLASSIFICATION	PRODUCT
						0. 5	0	2-4	USAGE	kaigaisyuttyouyou	Kaigaisy	USAGE
					Τ	0. 2	-	٥ ر	ı	n da	hujuubun da	
2-03	WALE		7	,008 Aq	LEX	ი ა	0	၁ ၁	USAGE	kaigaisyuttyouyou	kaigai syu	CAPACITY
5	7		၁ ၂ ဌ		Ŀ		-	ı	QUANT_TYPE			
					0 1	1.0	1.0	2-2	PROD_NAME	A200	NAME	PRODUCT
					NOI.	1.0	1.0	2-1	PROD_TYPE	ba9	CLASSIFICATION	PRODUCT (
				=	TAC	0.5	0	1-3b	1	00Kij		
		Я			EI(1.0	1.0	1-3a	QUANT	20 rittoru		CAPACITY
1	ı	IDE	1-\$2		ISS	-	I	ľ	QUANT_TYPE			
		ŒИ		MEE COV	SA 1	1.0	1.0	1-2	PROD_NAME	A200	NAME	PRODUCT
					၁	1.0	1.0	1-1	PROD_TYPE	bag	CLASSIFICATION	PRODUCT
USER METADATA ID	DESCRIP -TION	VIEW- POINT	SOURCE METADATA ID	DESCRIP -TION	VIEW-	RELI- ABILITY	OBJEC-	ELEMENT METADATA ID	SEMANTIC ATTRIBUTE	DESCRIPTION	VIEWPOINT	<u> </u>
METADATA	USER META		METADATA	동	SOL				TADATA	ELEMENT METADATA		,
				;								

FIG. 28

METADATA INTEGRATION RESULT EXAMPLE

kokunaisyuttyouyou usage	řή			4-3-3-3-4 4-3-3-3-1-3-1-3-1-3-1-3-1-3-1-3-1-3-1-3-	4-4	4-4
kaigaisyuttyouyou usage		2-4		<u> </u>	<u> </u>	
JUU BUN da USAGE		4-3	4-3 0		0	0
1	╁	٥-١٥	0		0.3	
kokunaisyuttyouyou usage	\vdash	ာ		>	>	>
		2-3	2-3 0		0	0
Kaigaisyuttyouyou USAGE		5		•	•	•
1		1-3b	1-3b 0		0 0.5	0
20 rittoru QUANT	\Box	1-3a	1-3a 1.0		1.0 1.0	1.0 1.0
QUANT_TYPE		ı	I	-	I	I
		4-2	4-2	4-2	TX	TX
	۵	3-2	-2	-2	31	
PROD_NAME	2-2	-2	-2 1.0	<u>. </u>	1.0 1.0	1.0 1.0
	1-2	2	-2	-2	NOIT	
	4-1	<u> </u>				CA
-	ယု	<u> </u>		<u> </u>		
PROD_TYPE	2-1	<u> </u>	1.0		1.0 1.0	1.0 1.0
	<u></u>	<u></u>			770	
DESCRIPTION SEMANTIC ATTRIBUTE		DATA	METADATA OBJEC-		MENT DATA OBJEC- RELI- VIEW- D TIVITY ABILITY POINT	
ELEMENI METADATA					300	SUUNUE METADATA

FIG. 29

METADATA TABLE

			ELEMENT METADATA	TADATA				SOL	SOURCE METADATA	ADATA		USER METADATA	ADATA
TOPICAL THING	TOPICAL VIEWPOINT	INI	DESCRIPTION	SEMANTIC ELEMENT OBJEC- RELI- VIEW- DESCRIP SOURCE VIEW- DESCRIP ATTRIBUTE ID TIVITY ABILITY POINT -TION METADATA POINT -TION	ELEMENT METADATA ID	OBJEC-	RELI- ABILITY	VIEW-	DESCRIP -TION	SOURCE METADATA ID	VIEW- POINT	DESCRIP -TION	USER METADATA ID
	CAPACITY	Υ		QUANT_TYPE	ı	ı	ı	10	ld		9	1	
	⊼-	aigai	kaigai syuttyouyou	USAGE	ა ა	>	o ၁	SSA_	ERSC	8	END	2	5
		NULU	huìuubun da	ŧ	2-3	•	0. 2	IHI	JANG	2-52	ЕВ	MALE	2-03
		okun	kokunaisyuttyouyou	USAGE	ည [ယ	>) ၁	TAO	∃W .				,
A200	0	marit	amarini o'okii	-	0	C	ر. ن	NOI	d 81	3-82		FEMALE	3-U3
	₹.	0kun	kokunaisyuttyouyou	USAGE	۰ د	>	ა ა	∃0	AGE	3		1	5
•		าศกกุ	juubun da	-	4 ⁻¹ ن	•	ر. د	(E)		4-82		MALE	4-03
	<u>~</u>	aigai	kaigaisyuttyouyou	USAGE	2-4					2-82		MALE	2-U3
	USAGE 1	<u>2</u> 2 2	Latinaisvittvallvall	IISAGE	3-4	0	0. 5	_		3–\$2	·	FEMALE	3 - U3
		7	015/000/00/00	Q id	4-4					4-S2		MALE	4-U3